



DART
AEROSPACE

Print

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
P0039877	ACI001-VC	1	1	Net 30	M4140H-R2.750	4140 Round Bar 2.750 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/- A193-03-GRADE B7/-A29- 03/-A322-91 OR UNS#- G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft				12	5/18/2018	11		S072715	Stock	5/19/2018	\$ 36.74 / ft
		2			M6061T6B0.750X05.000	6061T6 Bar 0.750 X 5.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S072716	Stock	5/19/2018	\$ 15.41 / ft
		3			M6061T6B0.500X04.500	6061T6 Bar 0.500 X 4.500 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S072717	Stock	5/19/2018	\$ 12.16 / ft
		4			M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50 : : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				40		40		S072718	Stock	5/19/2018	\$ 4.74 / ft
		5			M6061T6B1.500X02.500	6061-T6 Bar 1.50 X 2.50 : : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				24		24		S072719	Stock	5/19/2018	\$ 15.46 / ft
		6			M6061T6B2.250X2.250	6061T6 Bar 2.250 X 2.250 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S072720	Stock	5/19/2018	\$ 45.92 / ft
		7			M6061T6S.188	6061-T6 .188 Sheet : : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				32		32		S072721	Stock	5/19/2018	\$ 12.11 / sf
		8			M6061T6S.080	6061-T6 .080 Sheet : : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				192		192		S072722	Stock	5/19/2018	\$ 5.66 / sf

DA



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039877**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO039877

PO Date: 5/11/18

Due Date: 5/18/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
MAY 11 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: quotation sou0105054

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M4140H-R2.750		4140 Round Bar 2.750 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434- BC/-A193-03-GRADE B7/- A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$36.744166/ft	\$440.93
							11'		MAY 19 2018 DAS 11 9-89	
2	M6061T6B0.750X05.000		6061T6 Bar 0.750 X 5.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$15.41/ft	\$184.92
							12'		MAY 19 2018 DAS 11 9-89	
3	M6061T6B0.500X04.500		6061T6 Bar 0.500 X 4.500 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$12.15666/ft	\$145.88
							12'		MAY 19 2018 DAS 11 9-89	

PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6B0.750X01.500		6061-T6 Bar .750 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	40 ft	0 ft	40 ft	\$4.738/ft	\$189.52
							40'			
									MAY 19 2018 DAS 11 9-89	
5	M6061T6B1.500X02.500		6061-T6 Bar 1.50 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	24 ft	0 ft	24 ft	\$15.462916/ft	\$371.11
							24'			
									MAY 19 2018 DAS 11 9-89	
6	M6061T6B2.250X2.250		6061T6 Bar 2.250 X 2.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$45.91666/ft	\$551.00
							12'			
									MAY 19 2018 DAS 11 9-89	
7	M6061T6S.188		6061-T6 .188 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	5/18/18	32 sf	0 sf	32 sf	\$12.108125/sf	\$387.46
							32 ¹²			
									MAY 19 2018 DAS 11 9-89	
8	M6061T6S.080		6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	5/18/18	192 sf	0 sf	192 sf	\$5.658802/sf	\$1,086.49
							192 ¹²			
									MAY 19 2018 DAS 11 9-89	
9	M17-4-R0.750		17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	5/18/18	24 ft	0 ft	24 ft	\$8.6508333/ft	\$207.62
							24'			
									MAY 19 2018 DAS 11 9-89	

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	5/23/18	24 ft	0 ft	24 ft	\$24.5125/ft	\$588.30
11	M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$8.4358333/ft	\$101.23
12	MT-4140-S-1.250X2.000		AISI 4140 Steel Bar : MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395	Firmed	5/18/18	6 ft	0 ft	6 ft	\$36.16/ft	\$216.96
Grand Total:										\$4,471.42

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/11/18 11:39 AM dart.lavoie.chantal



DELIVERY - CLIENT

CO00089113

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2018/05/11

Delivery date

2018/05/18

Your order N°

39877

Shipped to

DART AEROSPACE LTD

, Ontario,

Processed by

Josianne Bourdon

Salesman

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Carrier

OUELLETTE VALLEYFIELD

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Credit Terme

Net 30 Days

Instruction F-M

Delivery Route 5

Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND 4140 HEAT TREAT 2 3/4 (R) R4140-234H 4931 <i>1 X 12' LINE 1 Heat: L7356 COUPE A LA SCIE SCIE 1</i>	253.56	12.00	PL_\$CLB								DAS 11 9-89 MAY 19 2018
2 FLAT ALU 3/4 X 5 6061-T6 * FAL-345 2598 <i>1 X 12' DC LINE 2 Heat: 16030232B</i>	52.69	12.00	PL_\$CLB								DAS 11 9-89 MAY 19 2018
3 FLAT ALU 1/2 X 4 1/2 6061-T6 NS FAL-12412 10194 <i>1 X 12' LINE 3</i>	31.72	12.00	PL_\$CLB								DAS 11 9-89 MAY 19 2018

NIR : R-109516-6



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00089113

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

2

Customer N°

CL10001056

Date

2018/05/11

Delivery date

2018/05/18

Your order N°

39877

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
AC16272-TH-16/05 Heat : 021171116B / 021171117B											
4 FLAT ALU 3/4 X 1 1/2 6061-T6 * FAL-34112 2584	54.00	40.00	PL \$CLB		2x12'		40'				MAY 19 2018 DAS 11 9-89
2 X 20' LINE 4 Heat : 68549					2x12'						
5 FLAT ALU 1 1/2 X 2 1/2 6061-T6 * FAL-112212 2439	105.74	24.00	PL \$CLB		2x12'		24'				MAY 10 2018 DAS 11 9-89
2 X 12' LINE 5 Heat : 386350					1x12'		12'				
6 SQUARE ALU 2 1/4 6061-T6 NS CAL-214 10543	71.36	12.00	PL \$CLB								MAY 19 2018 DAS 11 9-89
1 X 12' LINE 6 AC16272-TH-16/05											

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00089113

ACIER OUELLETTE INC.
935, Boul. du Hâve
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2018/05/11

Delivery date **2018/05/18**

Your order N° 39877

Processed by Josianne Bourdon

Salesman

Carrier QUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Billed to

DART AEROSPACE LTD

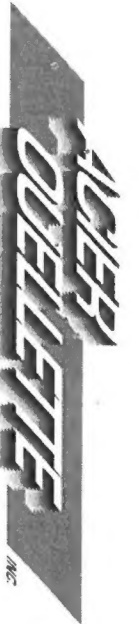
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
<i>Heat : 200729020</i> 7 ALU SHEET 3/16 6061-T6 (4 X 8) FEAL-316486061 4271 <i>0.188</i>	85.92	32.00	PI2_\$CLB		14 4'x8'		① 32 P12				DAS MAY 19 2018 9-89
<i>1 X 4' X 8' LINE 7</i> <i>Heat : 6161503</i>											
8 ALU SHEET .081 (12G) 6061-T6 (4 X 12) FEAL-0814126061 3195	219.07	192.00	PI2_\$CLB		44 4'x12'		192 P12				DAS MAY 19 2018 9-89
<i>4 X 4' X 12' LINE 8</i> <i>Heat : 01/0083429/7 X 12</i> <i>TRANSIT-ST-JEROME LE 14/05</i>											

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00089113

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Att : CHANTAL LAVOIE T l.: 613-632-5200
Delivery Route 5

Customer N 

CL10001056

Date

2018/05/11

Delivery date

2018/05/18

Your order N 

39877

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

4

Product Description	Weight	qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
10 PALETTE PALETTE 7573		1.00	UN_\$UN								
11 ROUND SS 3/4 17-4PH NS RSS-34174 9268 2 X 12' R/L LINE 9 Heat : 9SG0264-G5011	36.05	24.00	PL_\$CLB		24' x 12'		24'				DAS MAY 19 2018 9-89
12 SQUARE SS 1 SS303 NS CSS-1303 9512 2 X 12' R/L LINE 10 AC16273-SM-17/05 b/b	81.60	24.00	PL_\$CLB								
13 ROUND SS 1 303 (R) RSS-1303 8519 1 X 12' R/L LINE 11	32.04	12.00	PL_\$CLB		12'		12'				DAS MAY 19 2018 9-89

NIR : R-109516-6

Next Page...

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

4931

R-4140-2344

50901

15955

2p

Page 01 of 02

Certification Date
7-MAY-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00015955

Invoice Number
S706881

PART NUMBER/NUMÉRO DE PIÈCE

506439

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN

2-3/4 RD X 20 R/L

Line Total: 485 LB

HEAT: L7356

ITEM: 506439

Specifications:

ASTM A193 GR B7 16

ASTM A434 GR BC 15

ASME SA193 GR B7 15

ASTM A29 15

ASTM A962 16A

ASTM E381 12

EN 10204 3.1 04

CHEMICAL ANALYSIS

C	MN	P	S	SI	CR	NI	MO
0.41	0.97	0.0090	0.016	0.26	0.98	0.14	0.20
CU	AL	V					
0.22	0.026	0.007					

RCPT: R362671

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
DESCRIPTION	PSI	PSI	IN 02 IN	IN AREA	BHN
	120902.0	138322.0	18.0	56.7	299

GRAIN SIZE : 8 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mencées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport n'a pas été en contact avec le mercure pendant sa possession. JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
7-MAY-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00015955

Invoice Number
S706881

PART NUMBER/NUMÉRO DE PIÈCE
506439

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIE QC J6S

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2-3/4 RD X 20' R/L Line Total: 485 LB

HEAT: L7356 ITEM: 506439

STRAND CAST REDUCTION RATIO 72.7 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
AUSTENITIZED 1625F .1 HRS
WATER QUENCHED
TEMPERED 1300F .2 HRS
MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES


MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

MILL TEST

FA 345

BILL TO	CERT CODE: 1	DIE NUMBER S 23758	DATE OF SHIPMENT Oct/13/2016	MANIFEST NO. 197683 - 3 358425
SHIP TO	CUSTOMER PO 100664	ALLOY 6061	TEMPER T6	SALESMAN HOUSE ACCOUNTS
ACIER OUELLETTE	CUSTOMER PART NUMBER DT23758	PART DESCRIPTION	MADE IN CANADA	
SO DESCRIPTION	FLAT BAR 5" X 3/4" SC	CERTIFICATION MILL TEST ASTM B221-14		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Oct/06/2016	41.30	38.20	11.10	85.9,86.1,86.3	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Al	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
160302328	A.11	6061	0.53	0.18	0.22	0.03	0.8	0.08	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
938725	1

BILL TO

SHIP TO

MANIFEST NUMBER

354624

CUSTOMER PO

5400379606

CUSTOMER PART NUMBER

ALREC00548

DIE NUMBER

RB0456

ALLOY/TEMPER

6061-T6511

DESCRIPTION

SCRB .500 x 4.500

DATE OF SHIPMENT

1/10/2018

SALESPERSON

D. Schroeder (Canada)

CERTIFICATION

ASTM-B221-14 StencilCont

SPECIFICATION

AMS-QQA-200/8 Rev-A

SPECIFICATION

RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

If aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DfARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	201721131	1/7/18	min 41.20 max 41.30	min 36.20 max 36.90	min 23.30 max 24.40

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Melt Source:
20171116B	201721131	6061	0.62	0.25	0.19	0.07	0.86	0.07	0.03	0.02	97.88	0.05	0.15	United States of America
20171117B	201721131	6061	0.62	0.27	0.20	0.06	0.86	0.07	0.04	0.03	97.86	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 1/10/2018

Rev 7/2017

2584

HAL-34112

100-2104
49670

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande **7011453**

bon de commande / Purchase order # : **OU-47404**

de matrice / Die # : **MS 16477**

Description : **1 1/2" X 3/4" FLAT BAR**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

Contrôle / Control # : **84119-2**

Coulée / Cast # : **68549**

Dureté Rockwell E /
Rockwell E hardness : **94 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,28 - 0,60	0,13 - 0,25	0,10 Max	0,10 Max	0,35 - 0,73	0,10 Max	0,05 Max	0,05 Max
6005	0,68 - 0,72	0,15 - 0,27	0,04 - 0,08	0,06 - 0,08	0,48 - 0,52	0,03 Max	0,05 Max	0,03 Max
6005A	0,65 - 0,75	0,15 - 0,27	0,15 Max	0,20 - 0,30	0,45 - 0,55	0,10 Max	0,05 Max	0,05 Max
6061	0,50 - 0,76	0,13 - 0,29	0,15 - 0,28	0,10 Max	0,80 - 1,00	0,04 - 0,14	0,08 Max	0,05 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	—	0,50 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the **ASTM B-221-14** except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2017-03-10**

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

2439

FAL-112212

50599

15087

MILL TEST

BILL TO	5793	CERT CODE:	9	DIE NUMBER	S 4660	DATE OF SHIPMENT	Oct/19/2017	MANIFEST NO.	210182 - 9 379633
SHIP TO	LES METAUX SPECIALISES SAMUEL	CUSTOMER PO	C74902	ALLOY	6061	TEMPER	T6511	SALESMAN	HOUSE ACCOUNTS
SO DESCRIPTION	2.5 x 1.5 FB	CUSTOMER PART NUMBER	V836661	PART DESCRIPTION	2.5 x 1.5 FB	CERTIFICATION	ASTM B221-14 - AMS QQA 200/8	MADE IN CANADA	

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Oct/13/2017	42.30	38.40	12.80	89.0,89.2,89.5	

Chemical Composition

Cast Number	Lot	Alloy	SI	Fe	Cu	Mn	Mg	Cr	NI	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
386350	A.11	6061	0.6	0.15	0.21	0.04	0.87	0.07	0	0.01	0.02	0	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tusiram Mohabir
Quality Control Manager

89113
Dart
1627211

KAISER ALUMINUM

FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: 5400396921-3		CUSTOMER PART NUMBER: ALSQ00023		PRODUCT DESCRIPTION: 2.250 SC SQ BAR	
KAISER ORDER NUMBER: 6051775	LINE ITEM: 003	SHIP DATE: 04/12/2018	KAISER LOT NUMBER: Z00779020	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1000.000 LB	QUANTITY: 14.000 PCS	B/L NUMBER: 622454	DIAM/DAF/THKNS: 10	WIDTH: 10	LENGTH: 12.000 FT
SHIP TO:			SOLD TO:		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00779020	0001	0001	48.0	44.3	13.0	RE 94	N/A	N/A
Z00779020	0001	0002	45.2	41.4	10.2	RE 94	N/A	N/A
Z00779020	0001	0003	47.1	43.4	14.6	RE 93	N/A	N/A
Z00779020	0002	0001	47.7	43.9	10.1	RE 93	N/A	N/A
Z00779020	0002	0002	46.8	43.2	10.2	RE 93	N/A	N/A
Z00779020	0002	0003	48.4	44.8	13.2	RE 94	N/A	N/A
Z00779020	0002	0004	47.2	43.6	13.4	RE 93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108298	.77	.27	.29	.10	.95	.09	.02	.02	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00330009

Kaiser Order Number: 6051775

Line Item: 003

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

4271

FEAL-316486061

P.O. 14245

50266

ALNAN-MILL TEST CERTIFICATE

ASTM B209-2010, Aluminum Association Standard,
AMS4027 and AMS QQA 260/1

COUNTRY OF MELT AND MANUFACTURE: CHINA

DATE: 18/12/2016

Buyer: METAL EXCHANGE CORPORATION.	Lot No.:	6161503	Product: 丁有板	Aluminum plate
Address: 111 West Port Plaza Suite 360 St. Louis, MO United States, 63148	Certificate No.:	P-161218-6269	Difference:	0.18848, 6.796, 5.6 (inch) (179pos)
	Release No.:	12900028	Ally/Temper:	6061T6
	Customer Order No.:	ALNAN-XS16-FR617(1071861)	Total Quantity:	7.001MT

Lot No.	Cast No.	Metal ID	Alloy	Spec. No.	Mechanical Properties					Bend	Interc	Exfcor	Hardness (HB)
					Tensile Strength (KSI)	Yield Strength (KSI)	Elongation A50mm (%)						
6161503	-	6061T6	6061T6	-	45.7-45.8	41.2-41.3	16.5-17.0	Qualified	-	-	-	-	-

Weight %	Cast No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Remark	Each	Total
			Min.	0.40	-	0.15	-	0.80	0.04	-	-	-	-	-	-	-
Max.	-	-	0.80	0.70	0.40	0.15	1.20	0.35	-	0.25	0.15	-	-	-	-	0.10
6161503	-	6061T6	0.63	0.21	0.26	0.11	1.05	0.23	-	0.04	0.02	-	-	-	-	≤0.10

We hereby certify that the material described above has been tested and complies with the terms of the order contract.
The inspection results indicated in the chemical composition have been obtained from cast analysis.

Issue by QA51

Review by QA10



ALNAN ALUMINUM CO., LTD.
No. 511 Hong Road
Nanjing Jiangsu, 210023, China
Tel: +86 25 45672408
Fax: +86 25 45672409



Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 89055159

03 / 4

Rev.: 0

Seite / page:

1 von / of 2

Datum / date:

2017 06 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Auftraggeber / customer:	Bestell Nr. / order no.:	5400342513-R01
	Datum / date:	2017 03 02
	Auftragsbest. Nr. / order confirm no.:	130077
	Datum / date:	2017 04 13
Warenempfänger / consignee: CBS Atlanta 1500 Cherokee Pkwy ACWORTH GA 30102-1603 USA	Lieferschein Nr. / delivery note:	89055159
	Datum / date:	2017 07 31

Produkt / product	Bedingungen / terms
Form / form: Sheet	Technische Lieferbedingungen / techn. spec.:
Werkstoff / material: 6061	AMS QQ-A-250/11, 08.1997
Zustand / temper: T6	ASTM B 209 - 14
Dim / dim.: [inch]: 0,080x48,00x144,00	AMS 4027N, 07.2008
Kundenartikel Nr. / cust. article no.: ALFLR01650	ASME SB-209, 2011a
	Sondervorschrift / special terms:

AB-Pos. ord.-item.	BNr/Los Lot/No.	Teillos Part	Guss Nr. cast no.	Werkstoff material	Kollo packno.	Gewicht netto weight net	Stk. pcs.
05	34097/01	00	01/0083429/7	6061	1300770006	4056,437 lbs	75

Chemische Zusammensetzung ([%] Gewichtsanteile) / Chemical composition ([%] weight proportion (OES))

Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
01/0083429/7	6061	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	spec. max.	0,64	0,46	0,23	0,11	0,87	0,17	0,08	0,04	0,02	0,03
	actual										

Zugprüfung LT / tensile test LT							
BNr/Los	Zustand	Richtung	Tests		UTS	YS	A2"
Lot/No.	temper	direction			[ksi]	[ksi]	[%]
				spec.min.	42,0	35,0	10
				spec.max.	-	-	-
34097/01	T6	LT	2	from	47,4	40,0	15
34097/01	T6	LT		to	47,4	40,0	16

Sonstige Prüfungen / other tests

Biegeversuch: OK. / Transverse bend test: OK.

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich - www.amag.at
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria - www.amag.at

From:



Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 89055159

03 / 4

Rev.: 0

Seite / page:

2 von / of 2

Datum / date:

2017 06 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Bemerkungen / notes

Gegossen und gefertigt in Österreich / Country of melt and manufactured in Austria

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.
We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werksachverständiger / factory specialist

E-Mail / e-mail

Josef Klampfer

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.
Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

9268

PO.11395

RSS-34114

49/170

Page 01 of 02

Certification Date
27-NOV-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T373050

AC00011395
PART NUMBER/NUMÉRO DE PIÈCE
510517

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: 17-4 SOL ANN CF BAR ASTM A564
3/4 RD X 12" R/L Line Total: 185 LB
HEAT: 9SG0264-G5011 ITEM: 510517

Specifications:

AMS 5643 D
ASTM A388/A388M 16
ISO 15156-1 09*
EN 10204 3.1
ASTM E340

ASTM A564 T630 13
AMS 2303 F
*EXCEPT FOR H2S
ASTM F899 12B
AMS 2315

ASME SA564 T630 13
NACE MR0175 09
CORROSION TEST)
API 6A APPENDIX M
ASTM E112

CHEMICAL ANALYSIS

C	SI	MN	P	S	NI	CR	MO
0.01	0.34	0.62	0.017	0.003	4.69	15.35	0.23
CU	NBTA	NB	TA				
3.30	0.27	0.26	0.005				

RCPT: R201370

COUNTRY OF ORIGIN : TAIWAN

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
COND A					321
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
DEV: H900 L	182.0	201.0	17.0	53.0	428

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du fabricant après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport n'a rencontré les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
27-NOV-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00011395

Invoice Number
T373050

PART NUMBER/NUMÉRO DE PIÈCE
510517

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIE À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIE QC J6S

Description: 17-4 SOL ANN CF BAR
3/4 RD X 12' R/L

ASTM A564
Line Total: 185 LB

HEAT: 9SG0264-G5011 ITEM: 510517

GRAIN SIZE :8 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
ULTRASONIC: YES
THERMAL TREATMENT: OK
SOLUTION TREATMENT: 1900 +/-25 DEG F FOR 30 MIN/INCH
(MINIMUM OF 1/2 HOUR), RAPIDLY COOLED TO BELOW 90
DEG F
MACRO: OK
MICRO: OK
AMS NO :2303
SEVERITY :0.0
FREQUENCY:0.0

COMMENTS

red. ratio 279.6:1
17-4 is the same with aisi 630
free from residual radioactivity

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES


MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1V3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 365074 1 Mail To:

Ship To:

Date: 12/20/2017 Page: 1

Customer: 007205 001

Steel: 303

Finish: CD

Corrosion:

Red Ratio: 69.4 :1

Your Order: VIM643834

NVS Order: PN 0087675 02

Heat Treat Code: 44,568

PRODUCT DESCRIPTION:

Round Bar Annealed, Cold Draw
UNS 30306 ASTM A582/12 EN 10204 3.1, ASTM A484/16
AMS 5640V TYPE 1, QOS-7648 CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

REMARKS:

COMPLIES W/REQUIREMENTS OF DPM 252-225-7009 EU DIRECTIVE
2011/65/EU, ROHS, EAF-AD-CC. NO WELD REPAIR, MELTED AND NEG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Shield # Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BJ1787 9	1.0000		1.298	144.00	56	1	

CHEMICAL ANALYSIS

CM(Country of Mfg)

ES(Spain)

US(United States)

ZA(South Africa)

JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 12323
Chemical Analysis per ASTM A751/14a

NVS Heat	CM	C %	CO %	CR %	CU %	MN %	NO %	N %	NI %	P %
620M	US	.026	.09	17.11	.31	1.92	.268	.036	8.53	.031
	S %	SI %								
	.3350	.37								

MECHANICAL PROPERTIES

Product Id	1 0 0 1	HB	2YS KSI	UTS KSI	RA %	Elong % 4D
BJ1787 9	RL	221.0	78.77	102.63	37.91	22.61

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

12/20/2017

#8519

TS-1203-1

P0.12154

49820

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H65.080
 DATE: MAY 19 2019

PO / BATCH NO.: 039877/5072722

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 192 P¹²
 QUANTITY INSPECTED: 192 P¹²
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .080
 THICKNESS RECEIVED: .080
 SHEET SIZE ORDERED: 48" X 12"
 SHEET SIZE RECEIVED: 48" X 12"

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Astm B209</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Heat # 04/0083429/7 - 63265/01</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input type="radio"/> Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>		SIGNED OFF BY: _____	
DATE: <u>9-89 MAY 19 2019</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4023QR 4027
OR ASTM-B209

△ PART NUMBER: M6061T6S XXX X W WWW
THK WIDTH

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: XXX BY 4FT BY 8FT FOR SHEET

RELEASED

2018 MAR 13
REV 18-656

APPROVED

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (ZN DB-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
REV. C			
SHEET 1 OF 1			
TITLE 6061-T6 SHEET/PLATE SPEC			
SCALE NTS			
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Order - Factory

CO00089113

Product Description	Weight	Qty	UM	PCS NB		Internal Use Only						
				CMD	EXP	B/O	IN	I	S	C	OUT	
8 ALU SHEET .081 (12G) 6061-T6 (4 X 12) FEAL-0814126061 3195 4 X 4' X 12' LINE 8 TRANSIT ST-JEROME LE 14/05 <i>HEAT: 01/00834217</i>	219.07	192.00	PI2_\$CLB	4.00								
10 PALETTE PALETTE 7573		1.00	UN_\$UN	1.00								
11 ROUND SS 3/4 17-4PH NS RSS-34174 9268 2 X 12' R/L LINE 9 <i>HEAT: 9SG0264-65011</i>	36.05	24.00	PI_\$CLB	2.00								
12 SQUARE SS 1 SS303 NS CSS-1303 9512 2 X 12' R/L LINE 10 AC16273-SM-17/05	81.60	24.00	PI_\$CLB	2.00								
13 ROUND SS 1 303 (R) RSS-1303 8519 1 X 12'R/L LINE 11 <i>HEAT: 62014</i>	32.04	12.00	PI_\$CLB	1.00								
14 PLATE 4140 HEAT TREAT 1 1/4 NS P4140-114H 8506 1 X 2" X 72" LINE 12 AC16274-FU-17/05	51.05	1.00	PI2_\$CLB	1.00								
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$	0.00								

Prepared By :
Verified By :
Delivered By :
Time

Customer's Signature

Y
M
D

Total (\$CAD)
Deposit
Balance

5 124.97
0.00
5 124.97

Conditions :
All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (LBS) : 1 074.80
NIR : R-109516-6

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 14140H-R2.750
 DATE: MAY 19 2018

PO / BATCH NO: 039877/5072715

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 11'
 QUANTITY INSPECTED: 11'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.750
 THICKNESS RECEIVED: 2.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	4193
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # L7356
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAY 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

A193-C3 - GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA

EG. 7/8" ROUND BAR = M4140H-R0.875

RELEASED
5.3.15

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1606116B0.750x05.000 PO / BATCH NO.: 039827/5072716
 DATE: MAY 19 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>As per B221</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 16030232B</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 19 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-03-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1)	CP	09.07.13
A	NEW ISSUE	DS	01 08 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	MD		
CHECKED	AS		
MFG. APPR.	M6061T6B		
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO.		SHEET 1 OF 1	
TITLE		SCALE	
6061-T6 BAR		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176B 0.500 X 04.500 PO / BATCH NO: 039877/5072717
 DATE: MAY 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Astm B221</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Mat # 02J17116B / 02J17117B</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 19 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TT | X | WW.WWW | THICK | WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-05-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211B221 (ZN D7-1)	CP	08.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	REV. B
M6061T6B	SHEET 1 OF 1
TITLE	SCALE
6061-T6 BAR	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B0.25x01.500

PO / BATCH NO.: 039877/5072718

DATE: MAY 19 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 40'
 QUANTITY INSPECTED: 40'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>Austin B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>Heat # 68549</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>9-MAY 19 2018</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T TTT | X | WW WWW/
THICK | WIDTH

WHERE "T TTT" = THICKNESS IN INCHES
"WW WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12.000

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	ASS		
MFG APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.
M6061T6B

TITLE
6061-T6 BAR

REV. B

SHEET 1 OF 1

SCALE
NTS

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RELEASED
2009-09-03
AVP

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B1.500x02.500

PO / BATCH NO.: 039877/5072719

DATE: MAY 19 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) (N)	
CORRECT MATERIAL PER M-DRAWING	(Y) (N)	Astm B221
CORRECT THICKNESS	(Y) (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) (N)	Heat #3B6350
CORRECT MATERIAL IDENTIFICATION	(Y) (N)	
CORRECT M# ON THE MATERIAL	(Y) (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS
11

SIGNED OFF BY: _____

DATE: 9-89 MAY 19 2018

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

B	REMOVE QQ-A-250(1) OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn 07-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DRAWN	DESIGN	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	GP	REV B	
MFG APPR.	AS	SHEET 1 OF 1	
APPROVED	MP	SCALE	
DE APPR.	MP	NTS	
DATE	09 07 13	6061-T6 BAR 6061-T6 BAR	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 H6 B2.250 x 2.250

PO / BATCH NO.: 039877/5072720

DATE: MAY 19 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.250
 THICKNESS RECEIVED: 2.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	<u>As per B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	<u>Heat # 200779020</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>MAY 19 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ~~ASTM B221~~ *any*

PART NUMBER:

M6061T6B | T.TT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

REV	DESIGN	DS	DESCRIPTION	CP	09.07.13
A	DRAWN	DS	DART AEROSPACE LTD	DS	01.08.08
	CHECKED	DS	HAWKESBURY, ONTARIO, CANADA	BY	DATE
	MFG. APPR.	DS	DRAWING NO.		
	APPROVED	DS	M6061T6B		
	DE APPR.	DS	TITLE		
	DATE	09.07.13	6061-T6 BAR		
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RELEASED
2009-08-03
MD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: Nickel 6165-188
 DATE: MAY 19 2019

PO / BATCH NO.: 039872/5072721

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 32 P¹²
 QUANTITY INSPECTED: 32 P¹²
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .188
 THICKNESS RECEIVED: .188
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	Astm B209
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	Heat # 6161503
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____		
DATE: <u>9-19 MAY 19 2019</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

FILED
2018 MAR 13
FBI - LOS ANGELES

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR 4027
OR ASTM B209

M6061T6S	XXX	X	W.WWW
	THK		WIDTH

WHERE "XXX" = THICKNESS (IN INCHES)
"XXX" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

C	ADD PLATE AND T6S1 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B2008 SPEC (ZN D8-1), REF PAR 08-020A	CP	06.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
DE APPR.	HS		
DATE	17 12 13		

DART AEROSPACE LTD		REV. C
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO.		SCALE
M6061T6S		
TITLE		
6061-T6 SHEET/PLATE SPEC		NITS
CP 4		
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-R0.730
 DATE: MAY 19 2018

PO / BATCH NO.: 039877/3072723

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	Am55643
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	Heat # 9560264-25011
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____
DATE: <u>9-8 MAY 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5643 OR ASTM A564

PART NUMBER: M17-4- H1150- R | X-XXX | WHERE: H1150 SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
COND O.D. X-XXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
2.500" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H1025 CONDITION
0.750" DIAMETER BAR A CONDITION

RELEASED
2017-10-31
E117-728

APPROVED

C	ADDED MATERIAL CONDITION (CR17-107)	NO	17.09.14
B	REFORMAT DWG. S17400 TYPE 630 ADDED TO PURCHASE MATERIAL (ZIN D8-1), ADD A564 SPEC (CR-1), REF PAR 08-020A	VS	10.05.20
A	NEW ISSUE	CP	05.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	RA		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
REV. C SHEET 1 OF 1 SCALE NTS			
17-4 SS ROUND BAR			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303R 1.000
 DATE: MAY 19 2018

PO / BATCH NO.: 039 877 / 5072724

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	As per A582
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	Heat # 62011
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____
DATE: <u>MAY 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:
PART NUMBER:

ASTM A582
M303R/D DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
MND

B	REFORMAT DWG. ADD SPECS (2N 08-1)	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

DART AEROSPACE LTD		REV. B
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO.	M303R	SCALE
TITLE	303 ROUND BAR	NTS

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